

03-15-SEQLIST-0911
SEQUENCE LISTING

<110> Sanofi Pasteur, Inc.

<120> METHODS FOR PURIFYING PERTUSSIS TOXIN AND PEPTIDES USEFUL
THEREFOR

<130> API-03-15

<140> 10/579,655

<141> 2006-05-18

<150> 60/523,881

<151> 2003-11-20

<150> PCT/US2004/038700

<151> 2004-11-18

<160> 415

<170> PatentIn version 3.5

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Asn Met Arg Ile Glu Thr Pro Asn Asn Ile Arg Lys Asp Ala

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Val Lys Lys Asp Glu Leu Cys Ile Val Met Arg Ala Pro Cys Cys Glu
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Pro Leu Glu Cys Leu Arg Arg Tyr Met Leu Lys His Met Cys Gly Ser
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Val Lys Lys Asp Glu Leu Cys Lys Ala Phe Arg Tyr Ser Cys Cys Glu

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Ser Ser Gly Ser Ser
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Ser Ser Gly Ser Ser

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Ser Ser Gly Ser Ser

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Gly Ser Ser Gly Ser Ser

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Gly Ser Ser Gly Ser Ser
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Ala Ile
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Glu Thr Pro Asn Asn Ile Arg Lys Asp Ala Asn Ala Pro Lys Ala Ser

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Ala Ile

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Asn Thr Asn Arg Met Asp Ile Gln Arg Leu Met Thr Asn His Val Lys

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Arg Asp Ser Ser Pro Gly Ser Ile Asp Ala Asn Ala Pro Lys Ala Ser

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Ala Ile

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His Leu Glu Trp Tyr Pro Pro Ala Asp Ala Asn Ala Pro Lys Ala Ser
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Ala Ile
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Ala Thr Arg Asn Gly Phe Val Met Asn Thr Asp Arg Gly Thr Tyr Val
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Lys Arg Pro Thr Val Leu Gln Asp Ala Asn Ala Pro Lys Ala Ser Ala
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Ala Ile
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Ser Asn Ser Leu Asn Met Met Tyr Asp Ala Asn Ala Pro Lys Ala Ser
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Ala Asn
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Pro Pro Ser Gly Ser Pro Arg Thr Arg Ser Thr Thr Gly Thr Ser Thr
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Thr Ser Ser Pro Ser Thr Pro Gly Thr Leu Thr Leu Arg Arg His Pro
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Met Gly Arg Gly Ser His His His His His Ala Arg Ser Trp Gln

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Pro Glu Val Lys Met Ser Ser Leu Val Asp Thr Ser Gln Thr Val Gly

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Ala Ala Val Glu Thr Arg Thr Thr Asp Ala Asn Ala Pro Lys Ala Ser

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Asp Thr Arg Lys Leu His Met Arg His Tyr Phe Pro Leu Ala Ile Asp
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Ser Tyr Trp Asp His Thr Leu Arg Asp Ala Asn Ala Pro Lys Ala Ser
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Ala Ile

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Met Gly Arg Gly Ser His His His His His Ala Arg Ser Trp Thr
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Ser Met Gln Gly Glu Thr Leu Trp Arg Thr Asp Arg Leu Ala Thr Thr

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Lys Thr Ser Met Ser His Pro Pro Asp Ala Asn Ala Pro Lys Ala Ser

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Ala Ile

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Leu Lys Asp Arg Pro His Gly Val Tyr Asp Ala Asn Ala Pro Lys Ala

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His Lys Leu Ser Gln Tyr Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser

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Ala Ile

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Ala Ile

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Ile Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His

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25

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Arg Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser

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40

45

Ala Ile

50

<210> 67

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 67

Arg Ser Ser His Cys Arg His Arg Asn Cys His Thr Ile Thr Arg Gly

1

5

10

15

Asn Met Arg Ile Glu Thr Pro Asn Asn Ile Arg Lys Asp Ala Lys

20

25

30

<210> 68

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 68

Arg Ser Ser His Cys Arg His Arg Asn Cys His Thr Ile Thr Arg Gly
1 5 10 15

Asn Met Arg Ile Glu Thr Pro Asn Asn Ile Arg Lys Asp Ala
20 25 30

<210> 69

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 69

Arg Ser Thr Met Asn Thr Asn Arg Met Asp Ile Gln Arg Leu Met Thr
1 5 10 15

Asn His Val Lys Arg Asp Ser Ser Pro Gly Ser Ile Asp Ala
20 25 30

<210> 70

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 70

Arg	Ser	Asn	Val	Ile	Pro	Leu	Asn	Glu	Val	Trp	Tyr	Asp	Thr	Gly	Trp
1															15

Asp	Arg	Pro	His	Arg	Ser	Arg	Leu	Ser	Ile	Asp	Asp	Asp	Ala			
														20	25	30

<210> 71

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 71

Arg	Ser	Trp	Arg	Asp	Thr	Arg	Lys	Leu	His	Met	Arg	His	Tyr	Phe	Pro
1															15

Leu	Ala	Ile	Asp	Ser	Tyr	Trp	Asp	His	Thr	Leu	Arg	Asp	Ala			
														20	25	30

<210> 72

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 72

Ser Gly Cys Val Lys Lys Asp Glu Leu Cys Ala Arg Trp Asp Leu Val
1 5 10 15

Cys Cys Glu Pro Leu Glu Cys Ile Tyr Thr Ser Glu Leu Tyr Ala Thr
20 25 30

Cys Gly Lys
35

<210> 73

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 73

Ser Gly Cys Val Lys Lys Asp Glu Leu Cys Ala Arg Trp Asp Leu Val
1 5 10 15

Cys Cys Glu Pro Leu Glu Cys Ile Tyr Thr Ser Glu Leu Tyr Ala Thr
20 25 30

Cys Gly

<210> 74
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 74

Ser Gly Cys Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Val Asp Glu
1 5 10 15

Cys Cys Glu Pro Leu Glu Cys Phe Gln Met Gly His Gly Phe Lys Arg
20 25 30

Cys Gly

<210> 75
<211> 35
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic

<400> 75

Ser Gly Cys Val Lys Lys Asp Glu Leu Cys Ser Gln Ser Val Pro Met

1 5 10 15

Cys Cys Glu Pro Leu Glu Cys Lys Trp Phe Asn Glu Asn Tyr Gly Ile

20 25 30

Cys Gly Ser

35

<210> 76

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 76

Ser Gly Cys Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Glu

1 5 10 15

Cys Cys Glu Pro Leu Glu Cys Thr Lys Gly Asp Leu Gly Phe Arg Lys

20 25 30

Cys Gly

<210> 77
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 77
catgccatgg gacgtggctc acatcatc 28

<210> 78
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 78
gggttaata gcggatgcct tcggagcggtt agcgtc 36

<210> 79
<211> 38
<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 79

ggagatctca tatgcacca caccatcacc atagtggc

38

<210> 80

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 80

gggttaaata gcggatgcta ctaggc

26

<210> 81

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 81

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Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Gly Ser Val Gly His Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Arg Arg Phe Leu Asn Leu Arg Trp Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile
50 55 60

<210> 82

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 82

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ile Val Met Arg Ala Pro Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Arg Arg Tyr Met Leu Lys His Met Cys Gly Ser
35 40 45

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Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile

50

55

60

<210> 83

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 83

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1

5

10

15

Val Lys Lys Asp Glu Leu Cys Lys Ala Phe Arg Tyr Ser Cys Cys Glu

20

25

30

Pro Leu Glu Cys Leu Arg Lys Trp Leu Lys Ala Arg Phe Cys Gly Ser

35

40

45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile

50

55

60

<210> 84

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 84

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Leu Arg Ser Ser Ile Asp Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Tyr Lys Trp Met Gln Arg Arg Leu Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser
50 55

<210> 85

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 85

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly cys
1 5 10 15

03-15-SEQLIST-0911

Val Lys Lys Asp Glu Leu Cys Trp Pro Arg Arg His Lys Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Leu Glu Met Leu Glu Arg Lys Arg Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile
50 55 60

<210> 86

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 86

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Met Ser Met Ala Cys Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Lys Tyr His Gly Tyr Phe Trp Leu Cys Gly Ser Gly
35 40 45

Ser Ser Gly Pro Ser Ser Ile Arg Tyr Leu
50 55

<210> 87
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 87

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Val Trp Phe Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Thr Tyr Gln Ser Gly Tyr Tyr Trp Leu Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile
50 55 60

<210> 88
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 88

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Pro Trp Tyr Trp Arg Cys Cys Glu
20 25 30

Pro Leu Glu Cys Val Tyr Thr Ser Gly Tyr Tyr Ser Cys Gly ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile
50 55 60

<210> 89

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 89

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Arg Trp Asp Leu Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Ile Tyr Thr Ser Glu Leu Tyr Ala Thr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Gly
50 55

<210> 90
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 90

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Val Phe Tyr Phe Pro Asn Cys Cys Glu
20 25 30

Pro Leu Glu Cys Arg Trp Val Asn Asp Asn Tyr Gly Trp Cys Gly ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile
50 55 60

<210> 91

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 91

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Met Ser Met Ala Cys Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Lys Tyr His Gly Tyr Phe Trp Leu Cys Gly Ser Gly
35 40 45

Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile
50 55

<210> 92

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 92

03-15-SEQLIST-0911

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Thr Thr Ala Ser Lys Ser Cys Cys Glu
20 25 30

Pro Leu Glu Cys Lys Trp Thr Asn Glu His Phe Gly Thr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile
50 55 60

<210> 93

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 93

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ser Gln Ser Val Pro Met Cys Cys Glu
20 25 30

Pro Leu Glu Cys Lys Trp Phe Asn Glu Asn Tyr Gly Ile Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile

50 55 60

<210> 94

<211> 60

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 94

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Arg Trp Asp Leu Val Cys Cys Glu

20 25 30

Pro Leu Glu Cys Ile Tyr Thr Ser Glu Leu Tyr Ala Thr Cys Gly ser

35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile

50 55 60

<210> 95

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 95

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Arg Trp Asp Leu Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile
50 55 60

<210> 96

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 96

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Met Trp Ser Arg Glu Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Tyr Tyr Thr Gly Trp Tyr Trp Ala Cys Gly Ser Gly
35 40 45

Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile
50 55

<210> 97

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 97

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Val Asp Glu Cys Cys Glu
20 25 30

Pro Leu Glu Cys Phe Gln Met Gly His Gly Phe Lys Arg Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Gly Ser Asn

50

55

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<210> 98
<211> 60
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic

<400> 98

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Gly Leu Cys Trp Pro Arg Arg His Lys Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Leu Glu Met Leu Glu Arg Lys Arg Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile
50 55 60

<210> 99
<211> 60
<212> PRT
<213> Artificial sequence

<220>

<223> Synthetic

<400> 99

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys			
1	5	10	15
Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Val Asp Glu Cys Cys Glu			
20	25	30	
Pro Leu Glu Cys Thr Lys Gly Asp Leu Gly Phe Arg Lys Cys Gly ser			
35	40	45	
Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile			
50	55	60	

<210> 100

<211> 60

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 100

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys			
1	5	10	15
Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu			

20

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25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile
50 55 60

<210> 101

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 101

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Asn Trp Val Thr Pro Met Arg Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile
50 55 60

<210> 102

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic

<400> 102

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile
50 55 60

<210> 103

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 103

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Tyr Ala Ser Ala Ile
50 55 60

<210> 104

<211> 50

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 104

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ile

50

<210> 105
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 105

Met His His His His Ser Asp Ser Ser Ser Gly Ser Gly Cys
1 5 10 15
Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30
Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly ser
35 40 45
Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile
50 55 60

<210> 106
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 106

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15
Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Arg Glu
20 25 30
Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45
Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile
50 55 60

<210> 107

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 107

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15
Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30
Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45
Gly Ser Ser Gly
50

<210> 108

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 108

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15
Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30
Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45
Gly

<210> 109

<211> 58

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 109

Leu His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

03-15-SEQLIST-0911

1 5 10 15
Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30
Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45
Gly Ser Ser Gly Ser Ser Leu Val Asp Pro
50 55

<210> 110

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 110

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Asn

50

<210> 111
<211> 46
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 111

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys
35 40 45

<210> 112
<211> 54
<212> PRT
<213> Artificial Sequence

<220>

03-15-SEQLIST-0911

<223> Synthetic

<400> 112

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Val Asp Glu Cys Cys Glu
20 25 30

Pro Leu Glu Cys Phe Gln Met Gly His Gly Phe Lys Arg Cys Gly ser
35 40 45

Gly Ser Ser Gly Ser Asn
50

<210> 113

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 113

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Phe Lys Arg Phe Ser Phe Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly ser
35 40 45

<210> 114

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 114

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Phe Lys Arg Phe Ser Phe Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Asn
35 40 45

<210> 115

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 115

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Trp Ile Arg Phe Val Val Cys Cys Glu

20 25 30

Pro Leu Glu Cys Asp Cys Gly Thr Cys Met Phe Tyr Ser Cys Gly Ser

35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile

50 55 60

<210> 116

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 116

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Val Trp Phe Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Thr Tyr Gln Ser Gly Tyr Tyr Trp Leu Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile
50 55 60

<210> 117

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 117

03-15-SEQLIST-0911

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Leu Thr Gln Thr Arg Ser Cys Cys Glu
20 25 30

Pro Leu Glu Cys Arg Phe Leu Arg Ser His Ala Arg Thr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile
50 55 60

<210> 118

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 118

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Arg Lys Arg Tyr Arg Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Ile Leu Gln Phe Met Asn Lys Met Phe Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile
50 55 60

<210> 119

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 119

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Trp
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Pro Trp Tyr Trp Arg Cys Cys Glu
20 25 30

Pro Leu Glu Cys Val Tyr Thr Ser Gly Tyr Tyr Tyr Ser Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile
50 55 60

<210> 120
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 120

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Gly Ser Val Gly His Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Arg Arg Phe Leu Asn Leu Arg Trp Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile
50 55 60

<210> 121

03-15-SEQLIST-0911

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 121

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Ser Arg Ile Trp Ala Cys Cys Gly
20 25 30

Pro Leu Glu Cys Leu Met Arg Phe Met Ala Lys Arg Phe Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile
50 55 60

<210> 122

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

03-15-SEQLIST-0911

<223> Synthetic

<400> 122

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

Ala Lys Lys Asp Glu Leu Cys Ser Pro Ala Arg Arg Ile Cys Cys Glu

20 25 30

Pro Leu Glu Cys Leu Arg Arg Trp Tyr Glu Glu Ser Phe Cys Gly ser

35 40 45

Gly Ser Ser Gly

50

<210> 123

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 123

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Thr Met Asn Glu Val Cys Cys Cys Glu
20 25 30

Pro Leu Glu Cys Tyr Gly Asp Ile Ser Gly Glu Ala Met Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile
50 55 60

<210> 124

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 124

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ile Val Met Arg Ala Pro Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Arg Arg Tyr Met Leu Lys His Met Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile
50 55 60

<210> 125

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 125

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Lys Ala Phe Arg Tyr Ser Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Arg Lys Trp Leu Lys Ala Arg Phe Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile
Page 85

50

55

60

<210> 126

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 126

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1

5

10

15

Val Lys Lys Asp Glu Leu Cys Val Ser Gly Leu Met Asn Cys Cys Glu

20

25

30

Pro Leu Glu Cys Leu Trp Arg Trp Met Gln Lys Gln Gln Cys Gly Ser

35

40

45

Gly Ser Ser Gly Ser Ser His

50

55

<210> 127

<211> 55

03-15-SEQLIST-0911

<232> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 127

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 S 10 15

Val Lys Lys Asp Glu Leu Cys Trp Arg Pro Ala Ile Thr Cys Cys Glu
 20 25 30

Pro Leu Glu Cys Leu Arg Ile Tyr Met Arg Leu Trp Arg Cys Gly Ser
 35 40 45

Gly Ser Ser Gly Ser Ser Leu
50 55

<210> 128

<211> 56

<212> PRT

<213> Artificial Sequence

220

<223> Synthetic

<400> 128

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ser Gln Leu Asp Ser Ala Cys Cys Glu

20 25 30

Pro Leu Glu Cys Val Trp Gln Asn Asp Asn Tyr Gly Thr Cys Gly Arg

35 40 45

Ala Val Leu Gly Leu Ala His Pro

50 55

<210> 129

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 129

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

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Val Lys Lys Asp Glu Leu Cys Met Ser Met Val Gln Ile Cys Cys Glu
20 25 30

Pro Leu Glu Cys Phe His Ile Val Trp Cys Pro Trp Ala Cys Thr Ala
35 40 45

Val His
50

<210> 130
<211> 51
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 130

Met His His His His His Ser Asp Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Leu Met Arg Val Leu Arg Cys Cys Glu
20 25 30

Pro Leu Glu Cys Trp Val Gly Gly Val Cys Arg Gly Gly Cys Gly Ser
Page 89

35

40

45

Gly Ser Tyr

50

<210> 131

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 131

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1

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10

15

Val Lys Lys Asp Glu Leu Cys Thr Lys Ile Phe Lys Arg Cys Cys Glu

20

25

30

Pro Leu Glu Cys Ser Trp Val Val Trp Phe Pro Tyr Ser Cys Gly Ser

35

40

45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile

50

55

60

<210> 132

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 132

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Lys Lys Ile Asn Ala Lys Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Arg Arg Phe Leu Arg Phe Lys Phe Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile
50 55 60

<210> 133

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 133

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly cys

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Leu Arg Ser Ser Ile Asp Cys Cys Glu

20 25 30

Pro Leu Glu Cys Leu Tyr Lys Trp Met Gln Arg Arg Leu Cys Gly Ser

35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile

50 55 60

<210> 134

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 134

03-15-SEQLIST-0911

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Gly Leu Leu Thr Ser Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Val Trp Val Leu His His Phe Val Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile
50 55 60

<210> 135

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 135

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Thr Thr Ala Ser Lys Ser Cys Cys Glu
Page 93

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20

25

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Pro Leu Glu Cys Lys Trp Thr Asn Glu His Phe Gly Thr Cys Gly Ser

35

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45

Gly Ser Ser Gly Ser Ser Leu Val Ala Tyr

50

55

<210> 136

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 136

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1

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10

15

Val Lys Lys Asp Glu Leu Cys Ala Arg Trp Asp Leu Val Cys Cys Glu

20

25

30

Pro Leu Glu Cys Ile Tyr Thr Ser Glu Leu Tyr Ala Thr Cys Gly Ser

35

40

45

Gly Ser Ser Gly

50

<210> 137

<211> 60

<212> PRT

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<220>

<223> synthetic

<400> 137

Met His His His His His Ser Asp Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Arg Asn Val Arg Thr Pro Cys Cys Glu

20 25 30

Pro Leu Glu Cys Asp Leu Phe Leu Thr Phe Leu Phe Leu Cys Gly ser

35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Asn

50 55 60

<210> 138

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic

<400> 138

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Met Ser Met Ala Cys Val Cys Cys Glu

20 25 30

Pro Leu Glu Cys Lys Tyr His Gly Tyr Phe Trp Leu Cys Gly Ser Ala

35 40 45

Val Leu Gly Pro Ser Ser Ile Arg Tyr

50 55

<210> 139

<211> 56

<212> PRT

<213> Artificial Sequence

03-15-SEQLIST-0911

<220>

<223> Synthetic

<400> 139

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Phe Trp Trp Leu Thr Leu Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Arg His Ile Cys Leu Val Ser Pro Cys Gly Arg
35 40 45

Ala Val Leu Gly Leu Ala His Pro
50 55

<210> 140

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 140

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly cys
Page 97

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1 5 10 15

Val Lys Lys Asp Glu Leu Arg Lys Arg Arg Asn Gly His Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Trp Trp Ala Gly Val Pro Leu Met Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile
50 55 60

<210> 141

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 141

Met His His His His His Ser Asp Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Val Trp Asn Ser Met Pro Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Arg His Arg Leu Leu Leu Arg Leu Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile
50 55 60

<210> 142

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 142

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Arg Pro Glu Val Leu Ser Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Arg Arg Trp Phe Gln Lys Arg Met Cys Gly Ser
35 40 45

03-15-SEQLIST-0911

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile

50

55

60

<210> 143

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 143

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1

5

10

15

Val Lys Lys Asp Glu Leu Cys Phe Ser Arg Met Phe Met Cys Cys Glu

20

25

30

Pro Leu Glu Cys Asn Cys Pro Leu Ile Met Phe Ile Tyr Cys Gly Ser

35

40

45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile

50

55

60

<210> 144

03-15-SEQLIST-0911

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 144

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Trp Pro Arg Arg His Lys Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Leu Glu Met Leu Glu Arg Lys Arg Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile
50 55 60

<210> 145

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 145

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys His Ala Trp Tyr Thr Phe Cys Cys Glu
20 25 30

Pro Leu Glu Cys Gln Arg Lys Phe Gly Gly Tyr Trp Ala Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile
50 55 60

<210> 146

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 146

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Trp Glu Asp Met Thr Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Pro Ala Leu Glu Ser Val Val Leu Gln Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile
50 55 60

<210> 147

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 147

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Leu Cys Trp Gln Trp Thr Cys Cys Glu
20 25 30

03-15-SEQLIST-0911

Pro Leu Glu Cys Glu Leu Gln Trp Gly Ile Ile Arg Met Cys Gly Ser
35 40 45

Gly Asn
50

<210> 148
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic

<400> 148

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile

50

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03-15-SEQLIST-0911

60

<210> 149

<211> 58

<212> PRT

<213> Artificial sequence

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<223> Synthetic

<400> 149

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1

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10

15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu

20

25

30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Arg

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45

Ala Val Leu Gly Leu Ala His Pro Leu Phe

50

55

<210> 150

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 150

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Phe Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile
50 55 60

<210> 151

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 151

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys Val
1 5 10 15

Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu Pro
20 25 30

Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser Gly
35 40 45

Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile
50 55

<210> 152

<211> 60

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 152

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Asp Cys
1 5 10 15

03-15-SEQLIST-0911

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile
50 55 60

<210> 153

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 153

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser

35

40 03-15-SEQLIST-0911
45

Gly Asn

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<210> 154

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 154

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Gly
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile
50 55 60

<210> 155
<211> 47
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<213> Artificial sequence

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<400> 155

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly
35 40 45

<210> 156
<211> 46
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic

<400> 156

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys
35 40 45

<210> 157

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 157

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

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Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Arg
35 40 45

<210> 158

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 158

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Phe Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Asn
50 55 60

<210> 159

03-15-SEQLIST-0911

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 159

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Phe Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile
50 55 60

<210> 160

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 160

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Trp Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile
50 55 60

<210> 161

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 161

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Val Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile
50 55 60

<210> 162

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 162

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

03-15-SEQLIST-0911

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser His
50 55

<210> 163

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic

<400> 163

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Arg Ser Pro Thr Leu Ser Cys Cys Glu Pro Leu Glu
20 25 30

Cys Leu Arg Val Tyr Leu Glu His Trp Phe Cys Gly Ser Gly Ser Gly
35 40 45

Ser Ser Leu Val Ala Ser Ala Ser Ala Ile Asn

50

55

03-15-SEQLIST-0911

<210> 164

<211> 60

<212> PRT

<213> Artificial sequence

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<223> Synthetic

<400> 164

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1

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10

15

Val Lys Lys Asp Glu Leu Cys Gln Leu Cys Ala Leu His Cys Cys Glu

20

25

30

Pro Leu Glu Cys Val Arg Met Met Phe Leu Val His Arg Cys Gly Ser

35

40

45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile

50

55

60

<210> 165

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 165

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Asn Trp Val Thr Pro Met Arg Cys Glu
20 25 30

Pro Leu Glu Cys Val Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly
35 40 45

Ser Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile
50 55 60

<210> 166

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 166

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Val Phe Tyr Phe Pro Asn Cys Cys Glu
20 25 30

Pro Leu Glu Cys Val Arg Trp Val Asn Asp Asn Tyr Gly Trp Cys Gly
35 40 45

Ser Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile
50 55 60

<210> 167

<211> 61

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 167

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

03-15-SEQLIST-0911

Val Lys Lys Asp Glu Leu Cys Thr Thr Ala Ser Lys Ser Cys Cys Glu
20 25 30

Pro Leu Glu Cys Val Lys Trp Thr Asn Glu His Phe Gly Thr Cys Gly
35 40 45

Ser Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile
50 55 60

<210> 168

<211> 58

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 168

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Met Ser Met Ala Cys Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Val Lys Tyr His Gly Tyr Phe Trp Leu Cys Cys Gly

35

40 03-15-SEQLIST-0911
45

Ser Gly Ser Ser Gly Ser Ser Leu Val Glu

50

55

<210> 169

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

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<400> 169

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1

5

10

15

Val Lys Lys Asp Glu Leu Cys Ser Val Trp Tyr Arg Val Cys Cys Glu

20

25

30

Pro Leu Glu Cys Val Thr Pro Asp Trp Ser Gly Ile Leu Tyr Cys Gly

35

40

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Ser Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile

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<210> 170

<211> 52

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 170

Ser Ser Ser Gly Ser Gly Cys Val Lys Lys Asp Glu Leu Cys Glu Leu
1 5 10 15

Ala Ile Asp Val Cys Cys Glu Pro Leu Glu Cys Val Leu Gly His Gly
20 25 30

Leu Gly Tyr Ala Tyr Cys Gly Ser Ser Gly Ser Ser Leu Val
35 40 45

Ala Ser Ala Ile

50

<210> 171

<211> 60

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 171

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile
50 55 60

<210> 172

<211> 60

<212> PRT

<213> Artificial Sequence

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<223> synthetic

<400> 172

03-15-SEQLIST-0911

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Val Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile
50 55 60

<210> 173

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 173

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu

20

03-15-SEQLIST-0911
25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ile Leu Gly Leu Ala His Pro Leu Phe
50 55

<210> 174

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 174

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Val Phe

50

55

60

<210> 175

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

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Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

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Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu

20

25

30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser

35

40

45

Gly Ser Leu Gly Leu Ala His Pro

50

55

03-15-SEQLIST-0911

<210> 176

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 176

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1

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10

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Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu

20

25

30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser

35

40

45

Gly Ser Ser Gly Ser Arg

50

<210> 177

<211> 53

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 177

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Leu
50

<210> 178

<211> 55

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 178

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1

5

03-15-SEQLIST-0911

10

15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser His
50 55

<210> 179

<211> 54

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 179

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser
50

<210> 180
<211> 54
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic

<400> 180

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Arg

50

<210> 181

<211> 45

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 181

Ser Gly Ser Ser Ser Gly Ser Gly Cys Val Lys Lys Asp Glu Leu Cys

1

5

10

15

Glu Leu Ala Ile Asp Val Cys Cys Glu Pro Leu Glu Cys Leu Gly His

20

25

30

Gly Leu Gly Tyr Ala Tyr Cys Gly Ser Gly Ser Ser Gly

35

40

45

<210> 182

<211> 52

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 182

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Asp
50

<210> 183

<211> 51

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 183

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1

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03-15-SEQLIST-0911

10

15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser
50

<210> 184
<211> 51
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic

<400> 184

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Tyr
50

<210> 185
<211> 51
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic

<400> 185

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Cys Ser Tyr

50

<210> 186

<211> 50

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 186

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1

5

10

15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu

20

25

30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser

35

40

45

Gly Arg

50

<210> 187

<211> 49

03-15-SEQLIST-0911

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 187

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Thr
35 40 45

Ala

<210> 188

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 188

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu

20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser

35 40 45

Gly

<210> 189

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 189

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr
35 40 45

<210> 190

<211> 60

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 190

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

03-15-SEQLIST-0911
Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Val Phe

50

55

60

<210> 191

<211> 51

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 191

Met His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys Val Lys Lys

1

5

10

15

Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu Pro Leu Glu

20

25

30

Cys Trp Leu Gly His Gly Leu Gly Tyr Ala His Cys Gly Ser Gly Ser

35

40

45

Ser Gly Ser

50

<210> 192

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 192

Met	His	His	His	His	His	Ser	Gly	Ser	Ser	Ser	Gly	Ser	Gly	Cys
1														15

Val	Lys	Lys	Asp	Glu	Leu	Cys	Glu	Leu	Ala	Ile	Asp	Glu	Cys	Cys	Glu
20														30	

Pro	Leu	Glu	Cys	Val	Thr	Lys	Gly	Asp	Leu	Gly	Phe	Arg	Lys	Cys	Gly
35														45	

Ser	Gly	Ser	Ser	Gly	Ser	Ser	Leu	Val	Ala	Ser	Ala	Ile			
50													60		

<210> 193

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 193

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Arg Trp Asp Leu Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser
50

<210> 194

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 194

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Arg Trp Asp Leu Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Tyr
50

<210> 195
<211> 54
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 195

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Arg Trp Asp Leu Val Cys Cys Glu
20 25 30

03-15-SEQLIST-0911
Pro Leu Glu Cys Ile Tyr Thr Ser Glu Leu Tyr Ala Thr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Arg
50

<210> 196
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 196

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Thr Thr Ala Ser Lys Ser Cys Cys Glu
20 25 30

Pro Leu Glu Cys Lys Trp Thr Asn Glu His Phe Gly Thr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile

50 55 60
Page 143

<210> 197

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 197

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Thr Thr Ala Ser Lys Ser Cys Cys Glu
20 25 30

Pro Leu Glu Cys Lys Trp Thr Asn Glu His Phe Gly Thr Cys Gly Thr
35 40 45

Ala Val Leu Gly Leu Ala His Pro Leu Phe
50 55

<210> 198

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 198

Met	His	His	His	His	His	Ser	Gly	Ser	Ser	Ser	Gly	Ser	Gly	cys
1														15

Val	Lys	Lys	Asp	Glu	Leu	Cys	Ser	Gln	Ser	Val	Pro	Met	Cys	Cys	Glu
															30

Pro	Leu	Glu	Cys	Lys	Trp	Phe	Asn	Glu	Asn	Tyr	Gly	Ile	Cys	Gly	ser
															45

Gly	Ser	Ser	Gly	Ser	Ser	Leu	Val	Ala	Ser	Ala	Ile
50						55					60

<210> 199

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 199

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile
50 55 60

<210> 200

<211> 60

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 200

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

03-15-SEQLIST-0911
Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Asp
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile
50 55 60

<210> 201

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 201

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Ala Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser

35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ile Arg Tyr

50

55

60

<210> 202

<211> 59

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 202

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1

5

10

15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu

20

25

30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser

35

40

45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala

50

55

<210> 203

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 203

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Ala Val Leu Gly Leu Ala His Pro Leu Phe
50 55

<210> 204

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 204

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala
50 55

<210> 205

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 205

03-15-SEQLIST-0911

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser His
50 55

<210> 206

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 206

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser

35 40 45

Gly Ser Ser Gly Ser Ser Pro Ser Ser Ile Arg Tyr

50 55 60

<210> 207

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 207

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu

20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Thr

35 40 45

Ala Val Leu Gly Leu Ala His Pro Leu Phe

50 55

<210> 208

<211> 58

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 208

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

Val Arg Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu

20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser

35 40 45

Gly Ser Leu Gly Leu Ala His Pro Leu Phe

50 55

<210> 209

<211> 53
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 209

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser
50

<210> 210
<211> 58
<212> PRT
<213> Artificial Sequence

<220>

03-15-SEQLIST-0911

<223> Synthetic

<400> 210

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu

20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Arg

35 40 45

Ala Val Leu Gly Leu Ala His Pro Leu Phe

50 55

<210> 211

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 211

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu

20

25

30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly ser

35

40

45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser

50

55

<210> 212

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 212

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1

5

10

15

Val Lys Lys Asp Glu Leu Cys Thr Thr Ala Ser Lys Ser Cys Cys Glu

20

25

30

Pro Leu Glu Cys Lys Trp Thr Asn Glu His Phe Gly Thr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile
50 55 60

<210> 213

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 213

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile Tyr
Page 157

50

55

60

<210> 214

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 214

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1

5

10

15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu

20

25

30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser

35

40

45

Gly Ser Tyr

50

<210> 215

<211> 57

03-15-SEQLIST-0911

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> MISC_FEATURE

<222> (\$7)..(\$7)

<223> Xaa is any amino acid

<400> 215

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1

5

10

15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu

20

25

30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser

35

40

45

Gly Ser Ser Gly Ser Ser Leu Glu Xaa

50

55

<210> 216

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 216

Met	His	His	His	His	His	Ser	Gly	Ser	Ser	Ser	Gly	Ser	Gly	Cys
1														15

Val	Lys	Lys	Asp	Glu	Leu	Cys	Glu	Leu	Ala	Ile	Asp	Val	Cys	Cys	Glu
20														30	

Pro	Leu	Glu	Cys	Leu	Gly	His	Gly	Leu	Gly	Tyr	Ala	Tyr	Cys	Gly	Ser
35														45	

Gly	Ser	Ser	Gly	Ser	Ser	Leu	Val	Ala	Ser	Ala	Arg	Tyr			
50														60	

<210> 217

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 217

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly
35 40 45

<210> 218

<211> 56

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 218

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Asp
50 55

<210> 219
<211> 54
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic

<400> 219

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Val Leu Gly Leu Ala

50

<210> 220

<211> 59

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 220

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1

5

10

15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu

20

25

30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser

35

40

45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala

50

55

<210> 221

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 221

Met	His	His	His	His	His	Ser	Gly	Ser	Ser	Ser	Gly	Ser	Gly	Cys
1														15

Val	Lys	Lys	Asp	Glu	Leu	Cys	Glu	Leu	Ala	Ile	Asp	Glu	Cys	Cys	Glu
20														30	

Pro	Leu	Glu	Cys	Thr	Lys	Gly	Asp	Leu	Gly	Phe	Arg	Lys	Cys	Gly	Ser
35														45	

Gly	Ser	Ser	Gly	Ser	Ser	Leu	Val	Ala	Ser	Ala	Ile	Tyr			
50													60		

<210> 222

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 222

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Glu Phe Trp Val Pro Ser Ser Ile Arg Tyr Leu
50 55

<210> 223

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 223

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser
50 55

<210> 224

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 224

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

03-15-SEQLIST-0911
Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser
50

<210> 225
<211> SS
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 225

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser His
50 55

<210> 226

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 226

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Ala Val Leu Gly Leu Ala His Pro Leu Phe
50 55

<210> 227

<211> 54

<212> PRT

03-15-SEQLIST-0911

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 227

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ile Leu Gly Leu Ala
50

<210> 228

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 228

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Asn
50 55 60

<210> 229

<211> 57

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 229

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

03-15-SEQLIST-0911
Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala
50 55

<210> 230

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 230

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser

35 40 45

Gly Ser Ser Asp

50

<210> 231

<211> 60

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 231

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu

20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser

35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Phe

50 55 60

<210> 232

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 232

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val
50 55

<210> 233

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 233

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Leu Ala His Pro Leu Phe
50 55

<210> 234

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 234

03-15-SEQLIST-0911

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Asn
50 55 60

<210> 235

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 235

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser

35 40 45

Gly Arg

50

<210> 236

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 236

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu

20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser

35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Tyr

50 55

<210> 237

<211> 59

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 237

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly cys

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu

20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser

35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala

50 55

<210> 238

<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 238

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Asn
50 55 60

<210> 239
<211> 59
<212> PRT
<213> Artificial Sequence

<220>

03-15-SEQLIST-0911

<223> Synthetic

<400> 239

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

Val Lys Lys Gly Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu

20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly ser

35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala

50 55

<210> 240

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 240

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu

20

25

30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly ser

35

40

45

Gly Ser Ser Gly Ser Ser Leu

50

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<210> 241

<211> 58

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<213> Artificial Sequence

<220>

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<400> 241

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1

5

10

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Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu

20

25

30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Leu Gly Leu Ala His Pro Leu Tyr
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<210> 242
<211> 60
<212> PRT
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<220>
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<400> 242

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

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<210> 243
<211> 60
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<400> 243

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Arg Tyr
50 55 60

<210> 244
<211> 56

03-15-SEQLIST-0911

<212> PRT

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<400> 244

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly ser
35 40 45

Gly Ser Ser Gly Ser Ser Leu Val
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<210> 245

<211> 60

<212> PRT

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03-15-SEQLIST-0911

<400> 245

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Met Trp Ser Arg Glu Val Cys Cys Glu

20 25 30

Leu Leu Glu Cys Tyr Tyr Gly Trp Tyr Trp Ala Cys Gly Ser Gly

35 40 45

Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile Tyr

50 55 60

<210> 246

<211> 58

<212> PRT

<213> Artificial Sequence

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<400> 246

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Ala Ala

1 5 10 15

03-15-SEQLIST-0911

Ser Arg Lys Thr Ser Ser Ala Ser Trp Arg Ser Thr Cys Ala Val Ser
20 25 30

Pro Ser Ser Ala Trp Gly Thr Ala Trp Gly Thr Arg Thr Ala Ala Ala
35 40 45

Ala Val Leu Gly Leu Ala His Pro Leu Phe
50 55

<210> 247
<211> 59
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 247

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Ala Ala
1 5 10 15

Ser Arg Lys Thr Ser Ser Ala Ser Trp Arg Ser Thr Cys Ala Val Ser
20 25 30

Pro Ser Ser Ala Trp Gly Thr Ala Trp Gly Thr Arg Thr Ala Ala Ala
Page 185

35

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Ala Val Leu Gly Leu Ala His Pro Pro Ile Tyr

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<210> 248

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 248

Met His His His His Ser Gly Ser Ser Ser Gly Ser Ala Ala

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Ser Arg Lys Thr Ser Ser Ala Ser Trp Arg Ser Thr Cys Ala Val Ser

20

25

30

Pro Ser Ser Ala Trp Gly Thr Ala Trp Gly Thr Arg Thr Ala Ala Ala

35

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Ala Val Leu Gly Leu Ala His His

50

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<210> 249

<211> 57

<212> PRT

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<400> 249

Met His His His His Ser Gly Lys Leu Arg Ile Leu Arg Gln
1 5 10 15

Glu Arg Arg Ala Leu Arg Ala Gly Asp Arg Arg Val Leu Ala Pro Arg
20 25 30

Val Leu Gly Ala Arg Pro Gly Val Arg Val Leu Arg Gln Arg Gln Phe
35 40 45

Trp Val Pro Ser Ser Ile Arg Tyr Leu
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<210> 250

<211> 58

<212> PRT

<213> Artificial Sequence

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<400> 250

Met His His His His His Ser Gly Ser Thr Gln Asp Gln Ala Ala

1 5 10 15

Ser Arg Lys Thr Ser Ser Ala Ser Trp Arg Ser Thr Cys Ala Val Ser

20 25 30

Pro Ser Ser Ala Trp Gly Thr Ala Trp Gly Thr Arg Thr Ala Ala Ala

35 40 45

Ala Val Leu Gly Leu Ala His Pro Leu Phe

50 55

<210> 251

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 251

03-15-SEQLIST-0911

Met His His His His Gln Val Ala Gln Leu Arg Ile Arg Leu Arg
1 5 10 15

Gln Glu Arg Arg Ala Leu Arg Ala Gly Asp Arg Arg Val Leu Ala Pro
20 25 30

Arg Val Leu Gly Ala Arg Pro Gly Val Arg Val Leu Arg Gln Arg Gln
35 40 45

Phe Trp Val Pro Ser Ser
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<210> 252

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 252

Met His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Met Trp Ser Arg Glu Val Cys Cys Cys Glu
Page 189

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20

25

30

Leu Leu Glu Cys Tyr Tyr Gly Trp Tyr Trp Ala Cys Gly Ser Gly

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40

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Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile

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<210> 253

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 253

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Asn Val

1

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10

15

Ile Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His

20

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30

Arg Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser

35

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Ala Ile

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<210> 254

<211> 50

<212> PRT

<213> Artificial Sequence

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<223> synthetic

<400> 254

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Val Gly

1 5 10 15

Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr

20 25 30

His Lys Leu Ser Gln Tyr Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser

35 40 45

Ala Ile

50

<210> 255

<211> 50

<212> PRT

<213> Artificial Sequence

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<223> synthetic

<400> 255

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Trp Arg

1 5 10 15

Asp Thr Arg Lys Leu His Met Arg His Tyr Phe Pro Leu Ala Ile Asp

20 25 30

Ser Tyr Trp Asp His Thr Leu Arg Asp Ala Asn Ala Pro Lys Ala ser

35 40 45

Ala Ile

50

<210> 256

<211> 50

<212> PRT

<213> Artificial Sequence

03-15-SEQLIST-0911

<220>

<223> Synthetic

<400> 256

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Trp Thr
1 5 10 15

Ser Met Gln Gly Glu Thr Leu Trp Arg Thr Asp Arg Leu Ala Thr Thr
20 25 30

Lys Thr Ser Met Ser His Pro Pro Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile

50

<210> 257

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 257

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Pro
Page 193

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1 5 10 15

Leu Trp Tyr His Tyr Asn Cys Trp Asp Thr Ile Cys Leu Ala Asp Trp
20 25 30

Leu Lys Asp Arg Pro His Gly Val Tyr Asp Ala Asn Ala Pro Lys Ala
35 40 45

Ser Ala
50

<210> 258

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 258

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Cys Leu
1 5 10 15

Ala Thr Arg Asn Gly Phe Val Gln Met Asn Thr Asp Arg Gly Thr Tyr
20 25 30

Val Lys Arg Pro Thr Val Leu Gln Asp Ala Asn Ala Pro Lys Ala Ser

35

40

45

Ala Ile

50

<210> 259

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<212> PRT

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<220>

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<400> 259

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Leu Ser

1

5

10

15

Ala Leu Arg Arg Thr Glu Arg Thr Trp Asn Thr Ile His Gln Gly His

20

25

30

His Leu Glu Trp Tyr Pro Pro Ala Asp Ala Asn Ala Pro Lys Ala Ser

35

40

45

Ala Ile

50

<210> 260

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 260

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Thr Met

1 5 10 15

Asn Thr Asn Arg Met Asp Ile Gln Arg Leu Met Thr Asn His Val Lys

20 25 30

Arg Asp Ser Ser Pro Gly Ser Ile Asp Ala Asn Ala Pro Lys Ala Ser

35 40 45

Ala Ile

50

<210> 261

03-15-SEQLIST-0911

<211> 50

<212> PRT

<213> Artificial Sequence

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<223> Synthetic

<400> 261

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Asp Trp

1

5

10

15

Glu Leu Ser Pro Pro His Val Ala Ile Thr Thr Arg His Leu Ile Asn

20

25

30

Cys Thr Asp Gly Pro Leu Leu Arg Asp Ala Asn Ala Pro Lys Ala Ser

35

40

45

Ala Ile

50

<210> 262

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 262

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Leu Asn
1 5 10 15

Gly Glu Ser Thr Ser Asn Ile Leu Thr Thr Ser Arg Lys Val Thr Glu
20 25 30

Trp Thr Gly Tyr Thr Ala Ser Val Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 263

<211> 50

<212> PRT

<213> Artificial Sequence

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<222> (41)..(41)

<223> Xaa is any amino acid

<400> 263

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Gln Val

1 5 10 15

Thr Trp His His Leu Ala Asp Thr Val Thr Thr Lys Asn Arg Lys Cys

20 25 30

Thr Asp Ser Tyr Ile Gly Trp Asn Xaa Ala Asn Ala Pro Lys Ala Ser

35 40 45

Ala Ile

50

<210> 264

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 264

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Ile Ile

1 5 10 15

Val Ile His Asn Ala Ile Gln Thr His Thr Pro His Gln Val Ser Ile
20 25 30

Trp Cys Pro Pro Lys His Asn Arg Asp Asp Ala Asn Ala Pro Lys Ala
35 40 45

Ser Ala
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<210> 265
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<213> Artificial Sequence

<220>
<223> Synthetic

<400> 265

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Ser His
1 5 10 15

Cys Arg His Arg Asn Cys His Thr Ile Thr Arg Gly Asn Met Arg Ile
20 25 30

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Glu Thr Pro Asn Asn Ile Arg Lys Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 266
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
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<400> 266

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Trp Gly
1 5 10 15

Leu Ser Gly Thr Gln Thr Trp Lys Ile Thr Lys Leu Ala Thr Arg Leu
20 25 30

His His Pro Glu Phe Glu Thr Asn Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile

50

<210> 267
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<220>
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<400> 267

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Trp Arg
1 5 10 15

Trp His Asn Trp Gly Leu Ser Asp Thr Val Ala Ser His Pro Asp Ala
20 25 30

Ser Asn Ser Leu Asn Met Met Tyr Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Asn
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<210> 268
<211> 49
<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 268

Met Gly Arg Gly Ser His His His His His His Leu Asp Leu Trp Gly
1 5 10 15

Pro Pro Ser Gly Ser Pro Arg Thr Arg Ser Thr Thr Thr Gly Thr Ser Thr
20 25 30

Thr Ser Ser Pro Ser Thr Pro Gly Thr Leu Thr Leu Arg Arg His Pro
35 40 45

His

<210> 269

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

03-15-SEQLIST-0911

<400> 269

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Trp Gln

1 5 10 15

Pro Glu Val Lys Met Ser Ser Leu Val Asp Thr Ser Gln Thr Val Gly

20 25 30

Ala Ala Val Glu Thr Arg Thr Thr Asp Ala Asn Ala Pro Lys Ala Ser

35 40 45

Ala

<210> 270

<211> 50

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 270

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Trp Thr

1 5 10 15

03-15-SEQLIST-0911

Ser Met Gln Gly Glu Thr Leu Trp Arg Thr Asp Arg Arg Leu Ala Thr Thr
20 25 30

Lys Thr Ser Met Ser His Pro Pro Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 271
<211> 50
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<213> Artificial Sequence

<220>
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<400> 271

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Leu Ser
1 5 10 15

Ala Leu Arg Arg Thr Glu Arg Thr Trp Asn Thr Ile His Gln Gly His
20 25 30

His Leu Glu Trp Tyr Pro Pro Ala Asp Ala Asn Ala Pro Lys Ala Ser

35

40 03-15-SEQLIST-0911
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Ala Ile

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<210> 272

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 272

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Leu Ser
1 5 10 15

Ala Leu Arg Arg Thr Glu Arg Thr Trp Asn Thr Ile His Gln Gly His
20 25 30

His Leu Glu Trp Tyr Pro Thr Ala Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile

50

<210> 273

<211> 50

<212> PRT

<213> Artificial sequence

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<400> 273

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Lys Asp

1 5 10 15

Thr Ala Arg Thr Thr Ala Thr Leu Leu Thr Asn Asp Glu Asp Arg Lys

20 25 30

Thr His Trp Arg Met Phe Tyr Pro Asp Ala Asn Ala Pro Lys Ala Ser

35 40 45

Ala Ile

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<210> 274

<211> 50

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 274

Met	Gly	Arg	Gly	Ser	His	His	His	His	Tyr	His	Ala	Arg	Ser	Lys	Asp
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Thr	Ala	Arg	Thr	Thr	Ala	Thr	Leu	Leu	Thr	Asn	Asp	Glu	Asp	Arg	Lys
															30

Thr	His	Trp	Arg	Met	Phe	Tyr	Pro	Asp	Ala	Asn	Ala	Pro	Lys	Ala	Ser
															45

Ala	Ile
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<400> 275

03-15-SEQLIST-0911

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Thr Pro
1 5 10 15

Arg Leu Arg Lys Val Tyr Asp Leu Thr Val Thr Thr Thr Ser Ser Gln
20 25 30

Ile Asp Lys Leu Gln Pro Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
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<210> 276
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
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<400> 276

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Ser His
1 5 10 15

Cys Arg His Arg Asn Cys His Thr Ile Thr Arg Gly Asn Met Arg Ile

20

03-15-SEQLIST-0911
25 30

Glu Thr Pro Asn Asn Ile Arg Lys Asp Ala Asn Ala Pro Lys Ala Ser

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Ala Ile

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<212> PRT

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<223> Synthetic

<400> 277

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Asp Trp

1

5

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15

Glu Leu Ser Pro Pro His Val Ala Ile Thr Thr Arg His Leu Ile Asn

20

25

30

Cys Thr Asp Gly Pro Leu Leu Arg Asp Ala Asn Ala Pro Lys Ala Ser

35

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Ala Ile

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<210> 278

<211> 50

<212> PRT

<213> Artificial sequence

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<400> 278

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Ile Ser

1

5

10

15

Leu Ala Gln Tyr Tyr Trp Thr Ala Gln Arg Asp Met His Leu Leu Ile

20

25

30

Met His Lys Phe Met Asp Met Pro Asp Ala Asn Ala Pro Lys Ala Ser

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Ala Ile

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<210> 279

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<223> Synthetic

<400> 279

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Ile Ile
1 5 10 15

Val Ile His Asn Ala Ile Gln Thr His Thr Pro His Gln Val Ser Ile
20 25 30

Trp Cys Pro Pro Lys His Asn Arg Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

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03-15-SEQLIST-0911

<223> Synthetic

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Met Gly Arg Gly Ser His His His His His Ala Arg Ser Lys Phe

1 5 10 15

Arg Gln Ile Trp Glu Asn Glu Arg Lys Ala His Arg Met Val Met His

20 25 30

Gln Phe Tyr Gln Val Ile Arg Pro Asp Ala Asn Ala Pro Lys Ala ser

35 40 45

Ala Ile

50

<210> 281

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

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<400> 281

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Val Ile

1 5 10 15

Val Cys Val Cys Thr Thr Ala Gly Asn Tyr Asn His His Asp Gly Phe
20 25 30

Phe Lys Arg Tyr Asp Asn Ser Tyr Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 282
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<400> 282

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Leu Asn
1 5 10 15

Gly Glu Ser Thr Ser Asn Ile Leu Thr Thr Ser Arg Lys Val Thr Glu
20 25 30

03-15-SEQLIST-0911
Trp Thr Gly Tyr Thr Ala Ser Val Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile

50

<210> 283
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
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<400> 283

Ile Gly Arg Gly Ser His His His His His Ala Arg Ser Ser Tyr
1 5 10 15

Pro Asp His Gly Arg Tyr Arg Asn Gln Ile Glu Arg Gly Thr Ile Glu
20 25 30

Met Thr Tyr Ile Asp Thr His Tyr Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile

50

<210> 284

<211> 49

<212> PRT

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<400> 284

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Gly Ala Glu
1 5 10 15

Pro Gly Met Ser Gly Lys Pro Lys Val Thr Thr Trp His His Lys Arg
20 25 30

Tyr Arg Arg Phe Met Thr His Asp Ala Asn Ala Pro Lys Ala Ser Ala
35 40 45

1le

<210> 285

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03-15-SEQLIST-0911

<213> Artificial Sequence

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<400> 285

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Asp Ile
1 5 10 15

Asp Thr Ala Glu Val Asn Arg Trp Glu Ser Asn Leu Lys Ser Tyr Leu
20 25 30

Tyr Asn Met Thr Asp Ala Asn Ala Pro Lys Ala Ser Ala Ile
35 40 45

<210> 286

<211> 50

<212> PRT

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<223> Synthetic

<400> 286

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Val Leu
1 5 10 15

03-15-SEQLIST-0911

Thr Gly Gln Ser Leu Tyr Tyr Gln Phe Met Ser Arg Ala Phe Phe Thr
20 25 30

Leu Gln Lys Phe Thr Gln Asn Leu Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 287
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 287

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Lys Ile
1 5 10 15

Ala Glu Tyr Trp Leu Thr Glu Arg Met Met His Leu Arg Ala Met Met
20 25 30

Lys Leu Leu Asn Lys His Ala His Asp Ala Asn Ala Pro Lys Ala Ser
Page 218

35

40

45

Ala Ile

50

<210> 288

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 288

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser His Ser

1

5

10

15

Ala Leu Met His Asp Lys Asp Ser Ser Thr Ser Thr Tyr Tyr Pro Gln

20

25

30

Tyr Ala Asn Ser Pro Ser Val Gly Asp Ala Asn Ala Pro Lys Ala Ser

35

40

45

Ala Ile

50

<210> 289
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<212> PRT
<213> Artificial Sequence

<220>
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<400> 289

Met Gly Arg Gly Ser His His His His His Ala Arg Ser His Leu
1 5 10 15

Asp Pro Cys Ala Asp Leu Asn Val Thr Gln Gln Arg Thr Thr Arg Glu
20 25 30

Thr His Ser Asp Asn Glu Asn His Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 290
<211> 50
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic

<400> 290

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Pro Leu
1 5 10 15

Tyr Gln Gly Glu Thr Leu Asn Ala Tyr Ala Pro Gln Ser Met Val Lys
20 25 30

Ile Ser Lys Asp Tyr Val Leu His Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile

50

<210> 291

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 291

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Tyr Met
Page 221

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1 5 10 15

Ala Arg Trp His Pro Met Thr His Asn His Met Lys Glu Thr Leu Phe
20 25 30

Ala Ala Glu Pro His Val Cys Thr Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 292

<211> 50

<212> PRT

<213> Artificial Sequence

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<223> Synthetic

<400> 292

Met Gly Arg Gly Ser His His His His His His Ala Arg Pro Arg Phe
1 5 10 15

His Pro Pro Phe Leu Arg Asp Arg Ser Val Asn Arg Met Ile Met Asn
20 25 30

Glu His Arg Pro Arg Tyr Ser His Asp Ala Asn Ala Pro Lys Ala Ser

35 40 45

Ala Ile

50

<210> 293

<211> 50

<212> PRT

<213> Artificial Sequence

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<400> 293

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Ser Pro

1 5 10 15

Arg Tyr Ala Tyr Cys Gly Ser Arg Trp Asn Gly Ser Arg Met His Asn

20 25 30

Asn Lys Phe Thr Pro Ser Thr Arg Asp Ala Asn Ala Pro Lys Ala Ser

35 40 45

Ala Ile

50

<210> 294

<211> 49

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 294

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Asn Met

1

5

10

15

Asn Gln Met Thr Asn Ala Leu Asn Leu Arg Arg Arg Ser Arg Thr Trp

20

25

30

Val Ala Thr Phe Arg Ser Glu Asp Ala Asn Ala Pro Lys Ala Ser Ala

35

40

45

Ile

<210> 295

<211> 50

03-15-SEQLIST-0911

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 295

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Met Asn
1 5 10 15

Gly Leu Asp Met Gly Ser Pro Ile Trp Tyr Asn Met Gln Leu Lys Leu
20 25 30

Ile Tyr Phe Ser Cys Asn Trp Asn Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile

50

<210> 296

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 296

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Arg Val

1 5 10 15

Arg Asp Pro Asp Ser Gly Arg Thr His Gln Ile Arg Ser His Leu Lys

20 25 30

His Tyr Ser Asn Phe Pro Val Ala Asp Ala Asn Ala Pro Lys Ala Ser

35 40 45

Ala Ile

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<221> MISC_FEATURE

<222> (41)..(41)

<223> Xaa is any amino acid

<400> 297

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Gln Val
1 5 10 15

Thr Trp His His Leu Ala Asp Thr Val Thr Thr Lys Asn Arg Lys Cys
20 25 30

Thr Asp Ser Tyr Ile Gly Trp Asn Xaa Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 298

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 298

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Ile Leu
1 5 10 15

Asp Val Asn Asp Glu Lys Arg Pro Pro Gly Trp Tyr Arg Thr Asn Ile
20 25 30

Ile Asp Ser Pro Ser Gly Asp Ala Asn Ala Pro Lys Ala Ser Ala Ile
35 40 45

<210> 299
<211> 50
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic
<400> 299

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Arg Arg
1 5 10 15

Tyr Arg Asp Gly Ile Phe Arg Arg Met Arg Ser Asx Thr Asn Ala Arg
20 25 30

Gly Ala Arg His Ala Asp Leu Tyr Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile

50

<210> 300
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 300

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Lys Cys
1 5 10 15

His Val Arg Arg Lys Glu Ser Ala Ser Ser Lys Asn Arg His Asn His
20 25 30

Thr Trp His Asp Ser Asn Leu Tyr Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 301
<211> 50

03-15-SEQLIST-0911

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 301

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Arg Thr
1 5 10 15

Leu Leu Ile Arg Leu Tyr Pro Pro Asp Arg Phe Gly Ser Ser Arg Gln
20 25 30

Met Ala Thr Arg Asp Ser Phe Thr Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile

50

<210> 302

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 302

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Ser Gly
1 5 10 15

Met Tyr Val Val Ser Lys Pro Ala Ser Asp Ser Trp Thr Thr Cys Ala
20 25 30

Pro Tyr Thr Tyr Gly Thr Met Val Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
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<210> 303

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 303

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Asn Leu
1 5 10 15

03-15-SEQLIST-0911

Ser Thr Ile Arg Asx Met Asn Arg His Leu Thr Asp Arg Arg Leu Thr

20

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Ala Phe Arg Asn Gln Val Val Phe Asp Ala Asn Ala Pro Lys Ala Ser

35

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Ala Ile

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<210> 304

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 304

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Ile Asn

1

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15

Ala Trp Trp Tyr His Ile Gln Ser His Leu His Gln Trp Arg Arg His

20

25

30

Arg Leu Tyr Thr Ala Asn Gln Trp Asp Ala Asn Ala Pro Lys Ala Ser

35

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Ala Ile

50

<210> 305

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic

<400> 305

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Thr Met

1 5 10 15

Asn Thr Asn Arg Met Asp Ile Gln Arg Leu Met Thr Asn His Val Lys

20 25 30

Arg Asp Ser Ser Pro Gly Ser Ile Asp Ala Asn Ala Pro Lys Ala Ser

35 40 45

Ala Ile

50

03-15-SEQLIST-0911

<210> 306

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 306

Met Gly Arg Gly Ser His His His His His Ala Arg Pro Asn Val

1

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10

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Ile Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His

20

25

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Arg Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser

35

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Ala Ile

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<210> 307

<211> 50

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 307

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Asn Val
1 5 10 15

Ile Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His
20 25 30

Arg Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 308

<211> 50

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 308

Met Gly Arg Gly Ser His His His His His Arg Ala Arg Ser Asn Val

1

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03-15-SEQLIST-0911

10

15

Ile Pro Leu Ser Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His

20

25

30

Arg Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Thr

35

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Ala Ile

50

<210> 309

<211> 50

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 309

Ile Glu Arg Gly Ser Gln His His His His His Ala Arg Ser Asn Val

1

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10

15

Ile Thr Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His

20

25

30

Arg Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Thr
35 40 45

Ala Ile
50

<210> 310
<211> 49
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic

<400> 310

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Asn Val
1 5 10 15

Ile Thr Leu Ser Glu Val Trp Asp Thr Gly Trp Asn Arg Pro Leu Arg
20 25 30

Gln Arg Cys Arg Ser Glu Thr Asp Asp Asn Ala Gln Lys Ala Asn Asp
35 40 45

Ile

<210> 311

<211> 50

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 311

Met Gly Arg Gly Ser His His His His Arg Ala Arg Ser Asn Val

1 5 10 15

Ile Pro Leu Ser Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His

20 25 30

Arg Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser

35 40 45

Ala Ile

50

<210> 312

<211> 50

03-15-SEQLIST-0911

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 312

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Val Gly
1 5 10 15

Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr
20 25 30

His Lys Leu Ser Gln Tyr Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 313

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 313

Met Gly Arg Gly Ser Tyr His His His His Ala Arg Ser Val Gly
1 5 10 15

Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr
20 25 30

His Lys Leu Ser Gln Tyr Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 314

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 314

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Val Gly
1 5 10 15

Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr
20 25 30

His Lys Leu Ser Gln Tyr Ser Arg Asp Asn Ala Asn Ala Pro Lys Ala
35 40 45

Ser Ala Ile
50

<210> 315
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 315

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Val Gly
1 5 10 15

Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr
20 25 30

03-15-SEQLIST-0911

His Lys Leu Ser Gln Tyr Ser Arg Asn Ala Asn Ala Pro Lys Ala Thr

35

40

45

Ala Ile

50

<210> 316

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 316

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Val Gly

1

5

10

15

Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr

20

25

30

His Lys Leu Ser Gln Tyr Cys Arg Asn Ala Asn Ala Pro Lys Ala Thr

35

40

45

Ala Ile

50

<210> 317
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 317

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Trp Thr
1 5 10 15

Ser Met Gln Gly Glu Thr Leu Trp Arg Thr Asp Arg Leu Ala Thr Thr
20 25 30

Lys Thr Ser Met Ser His Pro Pro Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 318
<211> 50
<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 318

Met	Gly	Arg	Gly	Ser	His	His	His	His	Leu	Ala	Arg	Ser	Trp	Thr
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Ser	Met	Gln	Gly	Glu	Thr	Leu	Trp	Arg	Thr	Asp	Arg	Leu	Ala	Thr	Thr
														30	

Lys	Thr	Ser	Met	Ser	His	Pro	Pro	Asp	Ala	Asn	Ala	Pro	Lys	Ala	Ser
														45	

Ala	Ile
	50

<210> 319

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 319

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Trp
1 5 10 15

Thr Ser Met Gln Gly Glu Thr Leu Trp Arg Thr Asp Arg Leu Ala Ala
20 25 30

Thr Lys Thr Ser Met Ser His Pro Pro Asp Ala Asn Ala Pro Lys Ala
35 40 45

Ser Ala Ile
50

<210> 320
<211> 50
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic

<400> 320

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Leu Ser
1 5 10 15

03-15-SEQLIST-0911

Ala Leu Arg Arg Thr Glu Arg Thr Trp Asn Thr Ile His Gln Gly His

20

25

30

His Leu Glu Trp Tyr Pro Pro Ala Asp Ala Asn Ala Pro Lys Ala Ser

35

40

45

Ala Ile

50

<210> 321

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 321

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Leu Ser Ala

1

5

10

15

Leu Arg Arg Thr Glu Arg Thr Trp Asn Thr Ile His Gln Gly His His

20

25

30

Leu Glu Trp Tyr Pro Pro Ala Asp Ala Asn Ala Pro Lys Ala Ser Ala

35

40

45

Ile

<210> 322

<211> 50

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 322

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Cys Leu
1 5 10 15

Ala Thr Arg Asn Gly Phe Val Gln Met Asn Thr Asp Arg Gly Thr Tyr
20 25 30

Val Lys Arg Pro Tyr Val Leu Gln Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 323
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> MISC_FEATURE
<222> (37)..(37)
<223> Xaa is any amino acid

<400> 323

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Lys Val
1 5 10 15

Asn Pro Met Arg Glu Val Arg Cys Asn Ala Arg Cys Ile Arg Lys His
20 25 30

Arg Phe Arg Leu Xaa Ile Arg Asp Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 324
<211> 50
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic

<400> 324

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Thr Met
1 5 10 15

Asn Thr Asn Arg Met Asp Ile Gln Arg Leu Met Thr Asn His Val Lys
20 25 30

Arg Asp Ser Ser Pro Gly Ser Ile Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 325
<211> 50
<212> PRT
<213> Artificial sequence

<220>

<223> Synthetic

<400> 325

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Met Leu
1 5 10 15

Leu Leu Asn Glu Thr Tyr Arg Arg Tyr Arg Ser Trp Asp Glu Tyr Arg
20 25 30

Asn Asp Ile Gly Ser Asn Leu Asp Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 326

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic

<400> 326

03-15-SEQLIST-0911

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Gly His
1 5 10 15

Arg Glu Ser Asn Arg Val Asn Ser Asn Tyr Ala Asp Gln Leu His Ser
20 25 30

Thr Pro Ile Leu Asn Thr Trp Asn Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 327
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 327

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Ser Gly
1 5 10 15

Gln Ile Pro Tyr Lys Tyr Gly Asp Ala Ile Pro Ser Met Leu Thr His

20

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25

30

Asn Ala Glu Asn Gln Pro His Asp Asp Ala Asn Ala Pro Lys Ala Ser

35

40

45

Ala Ile

50

<210> 328

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 328

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Thr Pro

1

5

10

15

Arg Leu Arg Lys Val Tyr Asp Leu Thr Val Thr Thr Thr Ser Ser Gln

20

25

30

Ile Asp Lys Leu Gln Pro Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser

35

40

45

Ala Ile

50

<210> 329

<211> 50

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 329

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Glu Gly

1 5 10 15

Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr

20 25 30

His Lys Leu Ser Gln Tyr Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser

35 40 45

Ala Ile

50

03-15-SEQLIST-0911

<210> 330

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 330

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Met Arg

1

5

10

15

Pro Ile Leu Val Val Lys Tyr Pro Pro Tyr Leu Gln Thr Leu Asp Asn

20

25

30

Lys Arg Asp Ile Arg Gln Met Asp Asp Ala Asn Ala Pro Lys Ala Ser

35

40

45

Ala Ile

50

<210> 331

<211> 50

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 331

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Lys Asn
1 5 10 15

Asn Thr Lys His Tyr Thr Val Val Thr Trp Cys Tyr Leu Glu Arg Lys
20 25 30

Asn Gln Asn Leu Thr Ser His Thr Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 332

<211> 50

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 332

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Ile Leu

1

5

03-15-SEQLIST-0911

10

15

Arg Ser Ala Ser Cys Ser Ala Leu Thr Asp His Lys Arg Val Ala Tyr
20 25 30

Ala Cys Thr His Thr Glu Tyr Lys Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile

50

<210> 333

<211> 50

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 333

Met Gly Arg Asp Ser His His His His His His Ala Arg Ser Ile Ala
1 5 10 15

Asn Met Tyr Gln Leu Trp Ser Met Asn Arg Ser Asp His Asn Leu Val
20 25 30

Ile Lys Lys Gln Met Ser Leu Leu Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 334
<211> 50
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic

<400> 334

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Met Leu
1 5 10 15

Leu Leu Asn Glu Thr Tyr Arg Arg Tyr Arg Ser Trp Asn Glu Tyr Arg
20 25 30

Asn Asp Ile His Ser Asn Leu Asp Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile

50

<210> 335

<211> 50

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 335

Met Gly Arg Gly Ser His His His His His His Thr Arg Ser Glu Glu

1 5 10 15

Asn Arg Gln Trp Arg Asn Glu Gly Ser Thr Pro Phe Ser Ser Leu Ile

20 25 30

Ser Asp Met Ser Lys Pro Ile Val Asp Ala Asn Ala Pro Lys Ala Ser

35 40 45

Ala Ile

50

<210> 336

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 336

Met	Gly	Arg	Gly	Ser	His	His	His	His	His	His	Ala	Arg	Ser	Leu	Val
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															15

Thr	Arg	Leu	Leu	Arg	Thr	His	Arg	Glu	Glu	Lys	Val	Phe	Glu	Pro	Ser
															30

Pro	Thr	Gly	Pro	Ser	Glu	Lys	His	Asp	Ala	Asn	Ala	Pro	Lys	Ala	Ser
															45

Ala	Ile
50	

<210> 337

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 337

Met Gly Arg Gly Ser His His His His Ala Arg Ser Asp Met Asp
1 5 10 15

Leu Trp Asp Leu Pro Ala Leu Ala Pro Gln Ser Thr Thr Met Gln Met
20 25 30

His Ser Phe Thr His Met Lys Asp Ala Asn Ala Pro Lys Ala Ser Ala
35 40 45

Ile

<210> 338

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 338

Met Arg Arg Gly Ser His His His His His Ala Arg Ser Arg Arg
1 5 10 15

Val Thr Thr Glu Gly Gly Pro Lys Trp Ile Pro Gly His His Met Arg
20 25 30

Asp Asn Ile Pro Glu Ile Ala Asn Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 339
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 339

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Trp Gly
1 5 10 15

Leu Ser Gly Thr Gln Thr Trp Lys Ile Thr Lys Leu Ala Thr Arg Leu
20 25 30

03-15-SEQLIST-0911

His His Pro Glu Phe Glu Thr Asn Asp Ala Asn Ala Pro Lys Ala Ser

35

40

45

Ala Ile

50

<210> 340

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 340

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Thr Trp Asn

1

5

10

15

Gly Arg Pro Leu His His Leu Asp His Gln Trp Tyr Pro Asp Glu Ala

20

25

30

Arg Leu His Ala Ile His Asn Asp Ala Asn Ala Pro Lys Ala Ser Ala

35

40

45

Ile

<210> 341

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 341

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Thr Asn
1 5 10 15

Arg Gly Val Asn His Thr Gly Gln Met Arg Thr Met Pro Pro Ala Pro
20 25 30

Thr Val Glu Arg Ala Leu Asn Tyr Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile

50

<210> 342

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 342

Thr Gly Arg Gly Ser His His His His His Ala Arg Ser Pro Leu
1 5 10 15

Glu Leu Tyr Val Ile Thr Arg Asp Ala Arg Thr Asp Thr Gly Pro Ser
20 25 30

Ser Leu Arg Asp Ala Asn Ala Pro Lys Ala Ser Ala Ile
35 40 45

<210> 343

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 343

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Asn Val
1 5 10 15

Ile Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His
20 25 30

Arg Pro Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 344
<211> 49
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 344

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Asn Val Ile
1 5 10 15

Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His Arg
20 25 30

03-15-SEQLIST-0911
Ser Ser Leu Ser Ile Asp Asp Ala Asn Ala Pro Lys Ala Ser Ala
35 40 45

Ile

<210> 345
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 345

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Val Gly
1 5 10 15

Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr
20 25 30

His Lys Leu Ser Gln Tyr Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile

50

<210> 346
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 346

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Val Gly
1 5 10 15

Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr
20 25 30

His Lys Leu Ser Gln Tyr Ser Arg Asn Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 347
<211> 49
<212> PRT

03-15-SEQLIST-0911

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 347

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Val Gly Thr
1 5 10 15

Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr His
20 25 30

Lys Leu Ser Gln Tyr Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser Ala
35 40 45

Ile

<210> 348

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 348

03-15-SEQLIST-0911

Met Gly Arg Gly Ser His His His His Ala Arg Ser Val Gly Thr
1 5 10 15

Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr His
20 25 30

Lys Leu Ser His Tyr Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser Ala
35 40 45

Ile

<210> 349

<211> 50

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 349

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Trp Thr
1 5 10 15

03-15-SEQLIST-0911

Ser Met Gln Gly Glu Thr Leu Trp Arg Thr Asp Arg Leu Ala Thr Thr

20

25

30

Lys Thr Ser Met Ser His Pro Pro Asp Ala Asn Ala Pro Lys Ala Ser

35

40

45

Ala Ile

50

<210> 350

<211> 49

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 350

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Pro Leu Trp

1

5

10

15

Tyr His Tyr Asn Cys Trp Asp Thr Ile Cys Leu Ala Asp Trp Leu Lys

20

25

30

Asp Arg Pro His Gly Val Tyr Asp Ala Asn Ala Pro Lys Ala Ser Ala

35

40

45

Ile

<210> 351

<211> 50

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic

<400> 351

Met	Gly	Arg	Gly	Ser	His	His	His	His	His	Ala	Arg	Ser	Leu	Ser
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10

15

Ala	Leu	Met	Arg	Thr	Glu	Arg	Thr	Trp	Asn	Thr	Ile	His	Gln	Gly	His

20

25

30

His	Leu	Glu	Trp	Tyr	Pro	Pro	Ala	Asp	Ala	Asn	Ala	Pro	Lys	Ala	Ser

35

40

45

Ala Ile

50

<210> 352

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 352

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Leu Ser
1 5 10 15

Ala Leu Arg Arg Thr Glu Arg Thr Trp Asn Thr Ile His Gln Gly His
20 25 30

His Leu Glu Trp Tyr Pro Pro Ala Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 353

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 353

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Leu Ser Ala
1 5 10 15

Leu Arg Arg Thr Glu Arg Thr Trp Asn Thr Ile His Gln Gly His His
20 25 30

Leu Glu Trp Tyr Pro Pro Ala Asp Ala Asn Ala Pro Lys Ala Ser Ala
35 40 45

Ile

<210> 354

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 354

03-15-SEQLIST-0911

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Cys Leu

1 5 10 15

Ala Thr Arg Asn Gly Phe Val Met Asn Thr Asp Arg Gly Thr Tyr Val

20 25 30

Lys Arg Pro Thr Val Leu Gln Asp Ala Asn Ala Pro Lys Ala Ser Ala

35 40 45

Ile

<210> 355

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 355

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Cys Leu

1 5 10 15

Ala Thr Arg Asn Gly Phe Val Gln Met Asn Thr Asp Arg Gly Thr Tyr

20 25 30

Val Lys Arg Pro Thr Val Leu Gln Asp Ala Asn Ala Pro Lys Ala Ser

35 40 45

Ala Ile

50

<210> 356

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 356

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Thr Met

1 5 10 15

Asn Thr Asn Arg Met Asp Ile Gln Arg Leu Met Thr Asn His Val Lys

20 25 30

Arg Asp Ser Ser Pro Gly Ser Ile Asp Ala Asn Ala Pro Lys Ala Ser

35 40 45

Ala Ile

50

<210> 357

<211> 50

<212> PRT

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<400> 357

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Ser Phe

1

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10

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Asn Lys Val Gly Arg Val Asp Ser Glu Phe Gly Thr Lys Ala Asn Ser

20

25

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His Gln Ile Pro Ser Gly Glu Leu Asp Ala Asn Ala Pro Lys Ala Ser

35

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Ala Ile

50

<210> 358

03-15-SEQLIST-0911

<211> 50
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<220>
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<400> 358

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Ile Lys
1 5 10 15

Tyr Trp Met Ile Pro Ser Trp Asn Leu Tyr Pro Trp Leu Leu Met Tyr
20 25 30

Asp Thr Leu Ile His Pro Thr Met Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
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<210> 359
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<220>

03-15-SEQLIST-0911

<223> Synthetic

<400> 359

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Trp Trp

1 5 10 15

Thr Arg Met Gln Ile Pro Thr Ser Trp Tyr Trp Tyr Thr Tyr Trp Ile

20 25 30

Asn His Leu Gln Lys His Asp Ile Asp Ala Asn Ala Pro Lys Ala ser

35 40 45

Ala Ile

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<210> 360

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<212> PRT

<213> Artificial Sequence

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<400> 360

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Trp Arg

1 5 10 15

Trp His Asn Trp Gly Leu Ser Asp Thr Val Ala Ser His Pro Asp Ala

20

25

30

Ser Asn Ser Leu Asn Met Met Tyr Asp Ala Asn Ala Pro Lys Ala Ser

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Ala Ile

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<210> 361

<211> 50

<212> PRT

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<220>

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<400> 361

Met Gly Arg Gly Ser His His His His His Asp Ala Arg Ser Ser His

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10

15

Trp Ser Asn Ala Asp His Ile Gly Pro Ser Arg Cys Leu Gly Cys Thr

20

25

30

Met Thr Thr Leu Ile Arg Leu Pro Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
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<210> 362
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<212> PRT
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<400> 362

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Arg Ser
1 5 10 15

Ile Pro Val Arg Ile Gln Gly Asn Pro Gly Asn Ser His Tyr Arg Leu
20 25 30

Met Gly Ala Ser Met Val His Gly Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile

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<210> 363
<211> 50
<212> PRT
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<220>
<223> Synthetic

<400> 363

Met Gly Arg Asp Ser His His His His His Ala Arg Ser Ile Ala
1 5 10 15

Asn Met Tyr Gln Leu Trp Ser Met Asn Arg Ser Asp His Asn Leu Val
20 25 30

Ile Lys Lys Gln Met Ser Leu Leu Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 364
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03-15-SEQLIST-0911

<212> PRT

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<220>

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<400> 364

Met Gly Arg Ser His His His His Ala Arg Ser Gly Lys Phe Arg
1 5 10 15

His Glu Ile Tyr Asn Met Glu Trp Pro Leu Ala Leu Glu Arg Tyr Trp
20 25 30

Asp Tyr His Gly Glu Pro Asp Ala Asn Ala Pro Lys Ala Ser Ala Ile
35 40 45

<210> 365

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 365

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Leu Glu
1 5 10 15

Thr Thr Thr Thr Ser Leu Met Asn Glu Glu Asp Ala Trp Asn Trp Thr

20

25

30

Ile Glu Lys Ser Arg His Ile Glu Asp Ala Asn Ala Pro Lys Ala Ser

35

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Ala Ile

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<210> 366

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 366

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Ile Met

1

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10

15

Tyr Met His Trp Gln Trp Ala Val Asn Arg Met Gly His Ala Thr Ala

20

25

30

Met Ser Thr Leu Ala Asn Ala Tyr Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 367
<211> 49
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 367

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Asn Asp
1 5 10 15

Ile Pro Leu Asn Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His Arg
20 25 30

Ser Arg Leu Thr Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser Ala
35 40 45

Ile

<210> 368

<211> 49

<212> PRT

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<220>

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<400> 368

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Asn Val
1 5 10 15

Ile Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His
20 25 30

Arg Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala

<210> 369

<211> 49

03-15-SEQLIST-0911

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 369

Met Gly Arg Gly Ser His His His His Arg Ala Arg Ser Asn Val
1 5 10 15

Ile Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His
20 25 30

Arg Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala

<210> 370

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

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<400> 370

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Val Gly

1 5 10 15

Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr

20 25 30

His Lys Leu Ser Gln Tyr Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser

35 40 45

Ala

<210> 371

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 371

Met Gly Arg Gly Ser His His His His His His Thr Arg Ser Val Gly

1 5 10 15

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Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr
20 25 30

His Lys Leu Ser Gln Tyr Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala

<210> 372

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 372

Met Gly Arg Gly Ser His His His Gln His Asn Ala Arg Ser Val Ala
1 5 10 15

Thr Thr Ile Pro Asp Arg Pro Gly His Gly Thr Leu Pro Glu Arg Leu
20 25 30

Pro Gln Ala Leu Pro Glu Leu Pro Gly Arg Arg Ser Glu Gly Ile Arg
Page 288

35

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45

<210> 373

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 373

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Val Gly

1

5

10

15

Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr

20

25

30

His Lys Leu Ser Gln Tyr Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser

35

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45

Ala

<210> 374

<211> 49

03-15-SEQLIST-0911

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 374

Met Gly Arg Gly Ser His Tyr His His His Ala Arg Ser Val Gly
1 5 10 15

Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr
20 25 30

His Lys Leu Ser Gln Tyr Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala

<210> 375

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 375

Met Gly Arg Gly Ser His His His His Ala Arg Ser Val Gly Thr

1 5 10 15

Thr Ile Arg Ile Ala Gln Asp Thr Glu His Tyr Arg Asn Val Tyr His

20 25 30

Lys Leu Ser Gln Tyr Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser Ala

35 40 45

<210> 376

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 376

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Trp Thr

1 5 10 15

Ser Met Gln Gly Glu Thr Leu Trp Arg Thr Asp Arg Leu Ala Thr Thr

20 25 30

Lys Thr Ser Met Ser His Pro Pro Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala

<210> 377
<211> 49
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 377

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Trp Gln
1 5 10 15

Pro Glu Val Lys Met Ser Ser Leu Val Asp Thr Ser Gln Thr Val Gly
20 25 30

Ala Ala Val Glu Thr Arg Thr Thr Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala

<210> 378

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 378

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Leu Ser
1 5 10 15

Ala Leu Arg Arg Thr Glu Arg Thr Trp Asn Thr Ile His Gln Gly His
20 25 30

His Leu Glu Trp Tyr Pro Pro Ala Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala

<210> 379

<211> 49

03-15-SEQLIST-0911

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 379

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Cys Leu
1 5 10 15

Ala Thr Arg Asn Gly Phe Val Gln Met Asn Thr Asp Arg Gly Thr Tyr
20 25 30

Val Lys Arg Pro Thr Val Leu Gln Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala

<210> 380

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 380

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Thr Met

1 5 10 15

Asn Thr Asn Arg Met Asp Ile Gln Arg Leu Met Thr Asn His Val Lys

20 25 30

Arg Asp Ser Ser Pro Gly Ser Ile Asp Ala Asn Ala Pro Lys Ala Ser

35 40 45

Ala

<210> 381

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 381

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Gln Val

1 5 10 15

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Thr Trp His His Leu Ala Asp Thr Val Thr Thr Lys Asn Arg Lys Cys
20 25 30

Thr Asp Ser Tyr Ile Gly Trp Asn Glu Leu Thr Leu Arg Arg His Pro
35 40 45

Leu

<210> 382

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 382

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Thr Gly
1 5 10 15

Gly Pro Thr Gly Thr Ser Ala Ser Ala Gly Pro Thr Ser Ala Thr Arg
20 25 30

Ser Pro Pro Gly Gly Pro Arg Arg Thr Leu Thr Leu Arg Arg His Pro
Page 296

35

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45

Leu

<210> 383

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 383

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Gly Lys

1

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10

15

Val Arg Gly His Thr Lys Glu Thr Pro Pro Thr Glu Phe Gly Leu Ser

20

25

30

Leu Met Asp Ala Asn Ala Pro Lys Ala Ser Ala

35

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<210> 384

<211> 49

03-15-SEQLIST-0911

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 384

Met Gly Arg Gly Ser His His His His His Leu Asp Leu Trp Gly
1 5 10 15

Pro Pro Ser Gly Ser Pro Arg Thr Arg Ser Thr Thr Gly Thr Ser Thr
20 25 30

Thr Ser Ser Pro Ser Thr Pro Gly Thr Leu Thr Leu Arg Arg His Pro
35 40 45

His

<210> 385

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 385

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Pro Thr

1 5 10 15

Met Arg Arg His Ile Arg Arg Ala Leu Tyr Pro Tyr Ser Thr Arg Arg

20 25 30

Ser Leu Leu Thr Ser Ala Pro Val Asp Ala Asn Ala Pro Lys Ala Ser

35 40 45

Ala

<210> 386

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 386

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Ser Val

1 5 10 15

03-15-SEQLIST-0911

His Trp Ser Tyr Cys Gly Ala Glu Val Lys Lys Asp Trp Tyr Gln His
20 25 30

Thr Ala Trp Thr Lys Asn His Tyr Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala

<210> 387

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 387

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Asn Met
1 5 10 15

Asn Thr Arg Arg Met Asp Ile Arg Asn Leu Ile Thr Lys Arg Val Lys
20 25 30

Lys Asp Tyr Ser Pro Gly Ser Lys Asp Ala Asn Ala Pro Lys Ala Ser
Page 300

35

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45

Ala

<210> 388

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 388

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Val Asp

1

5

10

15

Asp Thr Gly His Leu Leu His Thr Gly Arg Leu Met Arg Thr Pro Ser

20

25

30

Thr Asn Ser Trp His Thr Leu Asn Asp Ala Asn Ala Pro Lys Ala Ser

35

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45

Ala

<210> 389

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 389

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Ser Leu

1 5 10 15

Asn Lys Val Gly Arg Val Asp Ser Glu Phe Gly Thr Lys Ala Asn Ser

20 25 30

His Gln Ile Pro Ser Gly Glu Leu Asp Ala Asn Ala Pro Lys Ala Ser

35 40 45

Ala

<210> 390

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 390

Met Gly Arg Gly Ser His His His His His Ala Arg Ser His Ser

1 5 10 15

Arg His Glu Trp Thr Ser Thr Pro Arg Arg Arg Ser Thr Gly Pro

20 25 30

Gly Ser Arg Trp Ala Ser Gly Thr Asp Ala Asn Ala Pro Lys Ala Ser

35 40 45

Ala

<210> 391

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 391

03-15-SEQLIST-0911

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Gly Arg
1 5 10 15

Tyr His Arg Asp Arg Trp Leu Ala Thr Met Arg Tyr Pro Asp Pro Ser
20 25 30

Gln Val Trp Ser Arg Tyr Val Pro Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala

<210> 392

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 392

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Trp Arg
1 5 10 15

Trp His Asn Trp Gly Leu Ser Asp Thr Val Ala Ser His Pro Asp Ala
Page 304

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20

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Ser Asn Ser Leu Asn Met Met Tyr Asp Ala Asn Ala Pro Lys Ala Ser

35

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45

Ala

<210> 393

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<212> PRT

<213> Artificial Sequence

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<223> Synthetic

<400> 393

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Pro Leu

1

5

10

15

Trp Tyr His Tyr Asn Cys Trp Asp Thr Ile Cys Leu Ala Asp Trp Leu

20

25

30

Lys Asp Arg Pro His Gly Val Tyr Asp Ala Asn Ala Pro Lys Ala Ser

35

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45

Ala

<210> 394
<211> 49
<212> PRT
<213> Artificial Sequence

<220>
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<400> 394

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Asn Val Ile
1 5 10 15

Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His Arg
20 25 30

Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser Ala
35 40 45

Ile

<210> 395
<211> 48
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 395

Met Gly Leu Leu His His His His Ala Arg Ser Asn Val Ile Pro
1 5 10 15

Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His Arg Ser
20 25 30

Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser Ala Ile
35 40 45

<210> 396
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 396

03-15-SEQLIST-0911

Met Gly Arg Ser Ser His His His His His Ala Arg Ser Asn Val
1 5 10 15

Ile Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His
20 25 30

Arg Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 397
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 397

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Asn Val
1 5 10 15

Ile Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His
Page 308

20

25

30

Arg Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser

35

40

45

Ala Ile

50

<210> 398

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 398

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Asn Val

1

5

10

15

Ile Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His

20

25

30

Arg Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser

35

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45

Asn

<210> 399
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
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<400> 399

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Asn Val
1 5 10 15

Ile Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His
20 25 30

Arg Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 400

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

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<400> 400

Met Gly Arg Ser His His His His His Ala Arg Ser Asn Val Ile

1 5 10 15

Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His Arg

20 25 30

Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Lys Ala Ser Ala

35 40 45

Ile

<210> 401

<211> 45

<212> PRT

<213> Artificial Sequence

03-15-SEQLIST-0911

<220>

<223> Synthetic

<400> 401

Met Gly Arg Ser His His His His His Ala Arg Ser Asn Val Ile
1 5 10 15

Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp Asp Arg Pro His Arg
20 25 30

Ser Arg Leu Ser Ile Asp Asp Asp Ala Asn Ala Pro Arg
35 40 45

<210> 402

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 402

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Val Gly
1 5 10 15

Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Thr Arg Asn Val Tyr
Page 312

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His Lys Leu Ser Gln Tyr Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser

35

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Ala Ile

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<210> 403

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 403

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Val Gly

1

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15

Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Thr Arg Asn Val Tyr

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His Lys Leu Ser Gln Tyr Ser Arg Asp Ala Asn Ala

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<210> 404

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 404

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Val Gly
1 5 10 15

Thr Thr Ile Arg Ile Ala Gln Asp Thr Glu His Thr Arg Asn Val Tyr
20 25 30

His Lys Leu Ser Gln Tyr Ser Arg Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 405

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 405

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Trp Thr

1 5 10 15

Ser Met Gln Gly Glu Thr Leu Trp Arg Thr Asp Arg Leu Ala Thr Thr

20 25 30

Lys Thr Ser Met Ser His Pro Pro Asp Ala Asn Ala Pro Lys Ala Ser

35 40 45

Ala Ile

50

<210> 406

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 406

03-15-SEQLIST-0911

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Cys Leu
1 5 10 15

Ala Thr Arg Asn Gly Phe Glu Gln Met Asn Thr Asp Arg Gly Thr Tyr
20 25 30

Val Lys Arg Thr Thr Val Leu Gln Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 407

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 407

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Trp Arg
1 5 10 15

Asp Thr Arg Lys Leu His Met Arg His Tyr Phe Pro Leu Ala Ile Asp
Page 316

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20

25

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Ser Tyr Trp Asp His Thr Leu Arg Asp Ala Asn Ala Pro Lys Ala Ser

35

40

45

Ala Ile

50

<210> 408

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 408

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Ser Pro

1

5

10

15

Leu Trp Tyr His Tyr Asn Cys Trp Asp Thr Ile Cys Leu Ala Asp Trp

20

25

30

Leu Lys Asp Arg Pro His Gly Val Asp Ala Asn Ala Pro Lys Ala Ser

35

40

45

Ala Ile

50

<210> 409

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic

<400> 409

Met Gly Arg Gly Ser His His His His His His His Ala Arg Ser Pro

1 5 10 15

Leu Trp Tyr His Tyr Asn Cys Trp Asp Thr Ile Cys Leu Ala Asp Trp

20 25 30

Leu Lys Asp Arg Pro His Gly Val Tyr Asp Ala Asn Ala Pro Lys Ala

35 40 45

Ser Ala Ile

50

<210> 410

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic

<400> 410

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Gly Arg

1 5 10 15

Tyr His Arg Asp Arg Trp Leu Ala Thr Met Arg Tyr Pro Asp Pro Ser

20 25 30

Gln Val Trp Ser Arg Tyr Val Pro Asp Ala Asn Ala Pro Lys Ala ser

35 40 45

Ala Ile

50

<210> 411

<211> 50

<212> PRT

<213> Artificial Sequence

03-15-SEQLIST-0911

<220>

<223> Synthetic

<400> 411

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Thr Met
1 5 10 15

Asn Thr Asn Arg Met Asp Ile Gln Arg Leu Met Thr Asn His Val Lys
20 25 30

Arg Asp Ser Ser Pro Gly Ser Ile Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 412

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 412

Met Gly Arg Gly Ser His His His His His Ala Arg Ser Asn Leu
Page 320

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1 5 10 15

Tyr Ile Thr Gly Glu Phe Lys Arg Gln Thr Asp Asn Asn Gly Ser Glu
20 25 30

Leu Arg Arg Met Ser Arg Pro Arg Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 413

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 413

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Asn Cys
1 5 10 15

Leu Ile Ser Leu Thr Ala Glu Glu Lys Ala Leu Asn Arg Met Met Asn
20 25 30

Val Ser Val Pro Arg Val Met Thr Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile
50

<210> 414
<211> 50
<212> PRT
<213> Artificial Sequence

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<223> Synthetic

<400> 414

Met Gly Arg Asp Ser His His His His His Ala Arg Ser Ile Ala
1 5 10 15

Asn Met Tyr Gln Leu Trp Ser Met Asn Arg Ser Asp His Asn Leu Val
20 25 30

Ile Lys Lys Gln Met Ser Leu Leu Asp Ala Asn Ala Pro Lys Ala Ser
35 40 45

Ala Ile

50

<210> 415

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 415

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Leu Ser

1 5 10 15

Arg Leu Ala Thr Val Leu Asp Glu Pro Asp Arg Ser Leu Gln Thr Arg

20 25 30

Thr Asn Arg Pro His Arg Met Ile Asp Ala Asn Ala Pro Lys Ala Ser

35 40 45

Ala Ile

50